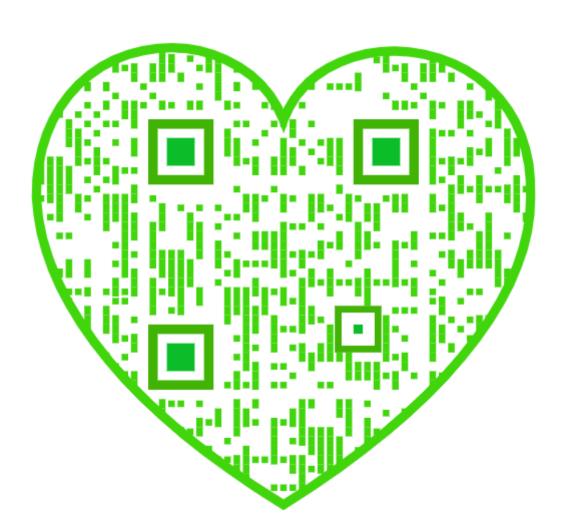


Enrichmentors



Purpose

The purpose of the section is to help you learn how to research, select, and develop appropriate algorithms to become a Successful Artificial Intelligence (AI) Engineer

At the end of this lecture, you will learn the following

 How to determine type of output and evaluation metrices- Regression and Clustering





How to determine type of output and evaluation metrices?

Understand the problem

Domain

Objectives

Constraints

Define the problem as a

Supervised

Unsupervised

Reinforcement learning task.

Determine

type of output (e.g., classification, regression, clustering)

Evaluation metrics.



Enrichmentors

Regression

Involve

Predicting

Continuous numerical

Values or quantities.

Examples

House price prediction

Stock price forecasting

Demand forecasting.

To determine

If the problem is a regression task

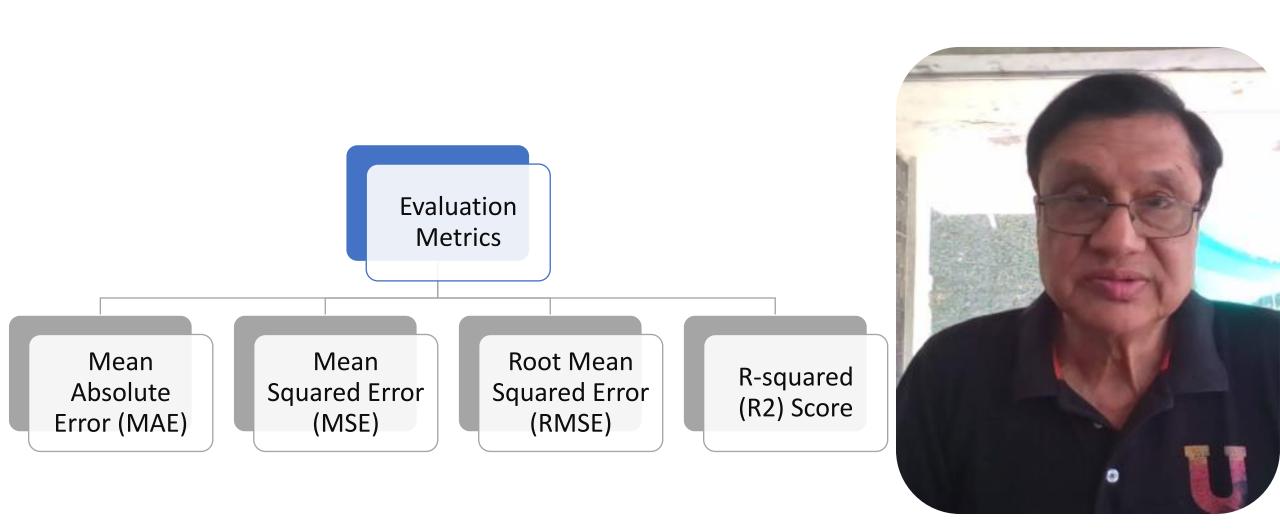
Check if the target variable consists of continuous numerical values





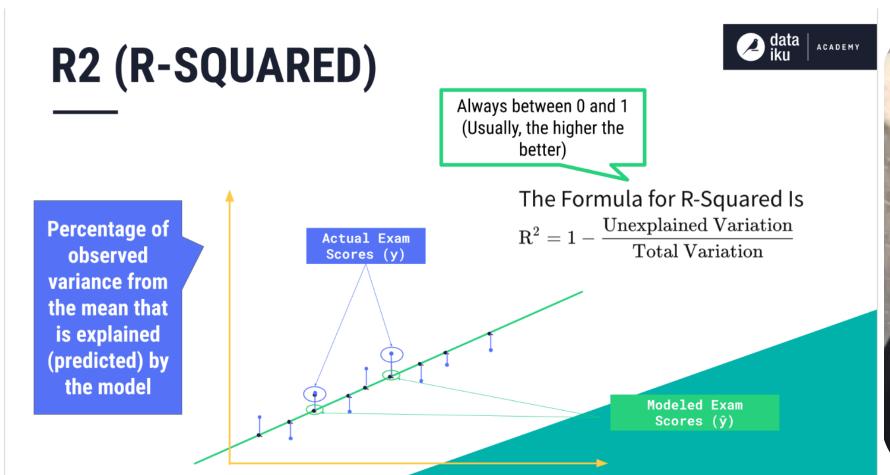


Regression- Evaluation Metrics





R-squared (R2) Score







Clustering

Involve

Examples

To determine

grouping similar data points together

Customer segmentation

If the problem is a clustering task

Into clusters

Document clustering

Check if the goal is

Based on their features or characteristics.

Image segmentation.

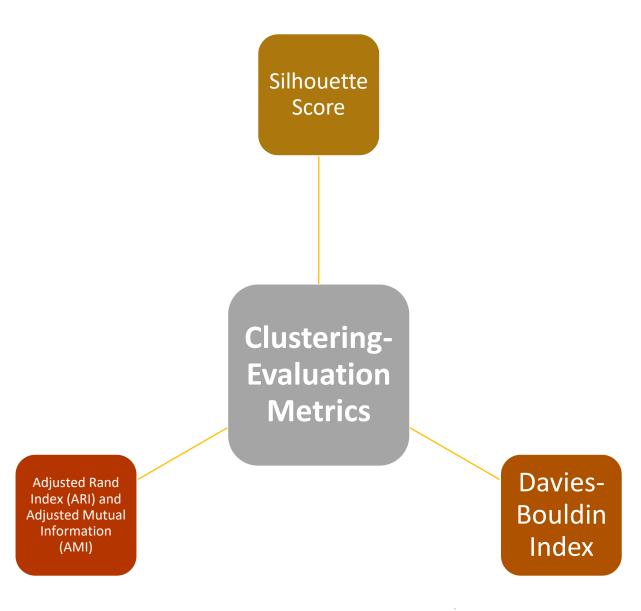
To identify natural groupings or patterns in the data

Without predefined labels



Enrichmentors

Clustering- Evaluation Metrics



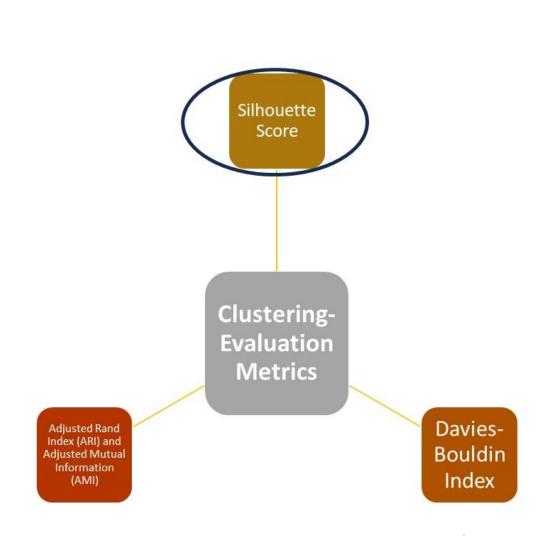






What is next?

How does Silhouette Score measures how similar an object is to its own cluster compared to other clusters









Enrichmentors